



C.E. Niehoff & Co.
BRUSHLESS ALTERNATORS

N1602
28V 400A
14V 50A

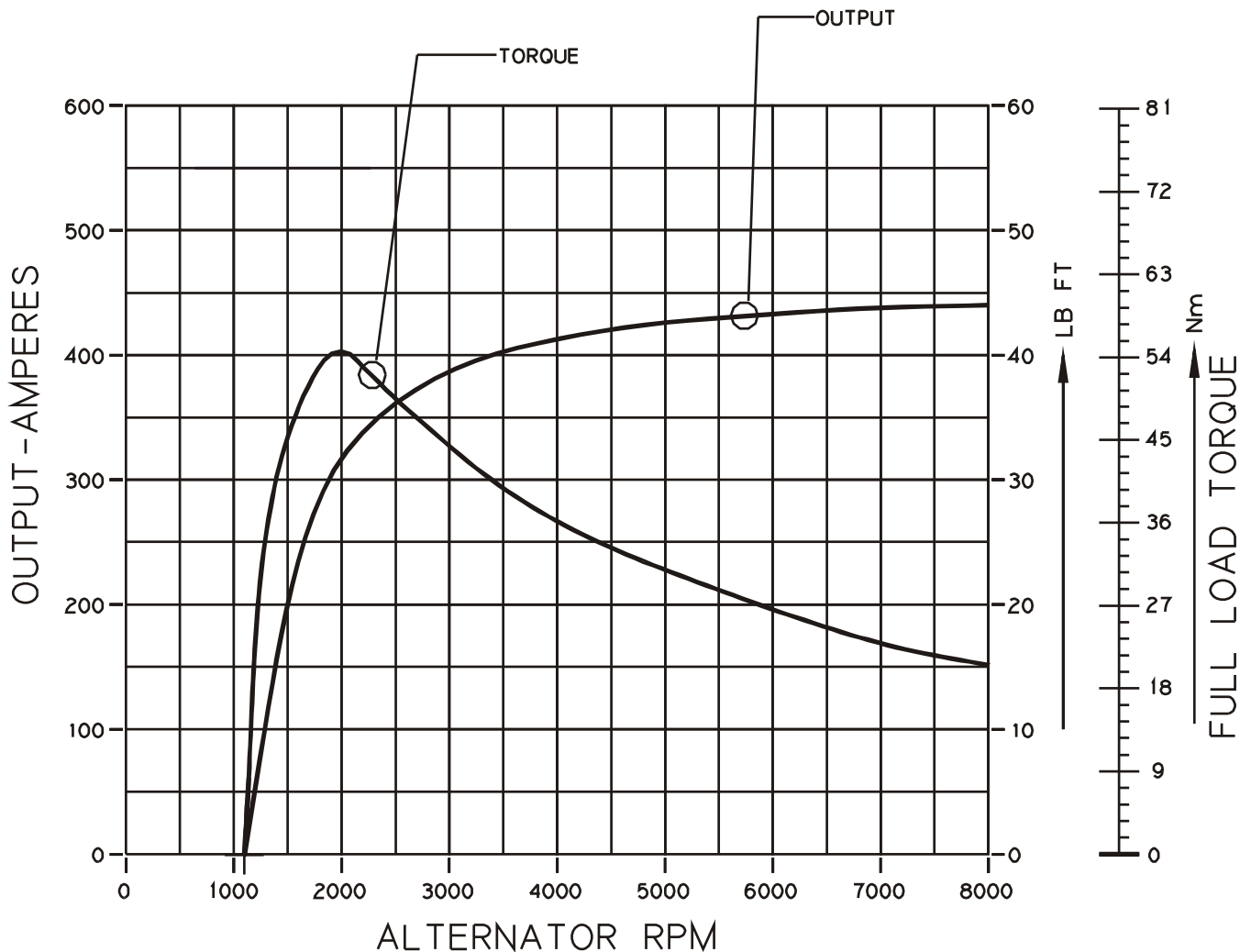
DESIGNING FOR TOMORROW'S DEMANDS

ALTERNATOR CHARACTERISTICS FOR DUAL VOLTAGE 28V/14V 400A/50A

APPLICABLE MODELS: N1602

OUTPUT CURVE: OUTPUT AMPERES VERSUS ALTERNATOR SHAFT SPEED IN RPM AT 28.0 VOLTS.

TORQUE CURVE: DRIVE TORQUE, IN LB FT AND Nm, VERSUS ALTERNATOR SHAFT SPEED IN RPM REQUIRED TO PRODUCE OUTPUT CURVE.



NOTE:

1. ALL MEASUREMENTS LISTED ON CURVE ARE TAKEN AT 22°C/72°F AMBIENT TEMPERATURE AND A STABILIZED MACHINE TEMPERATURE AT MAXIMUM OUTPUT WITH VOLTAGE CONSTANT AT 28.0 VOLTS.
2. RPM = REVOLUTIONS/MINUTE
LB FT = POUND-FOOT
Nm = NEWTON-METER



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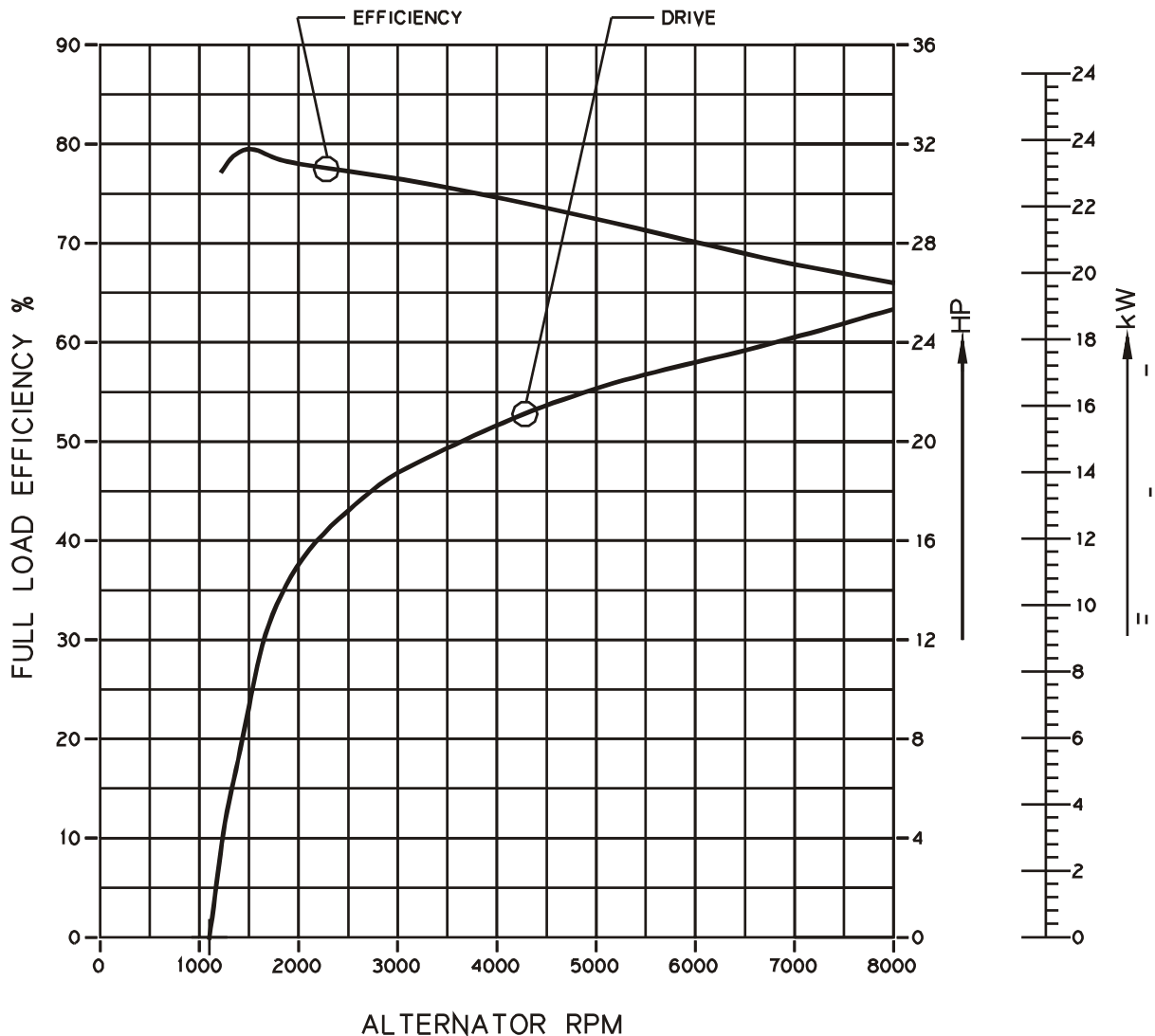
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ALTERNATOR CHARACTERISTICS DUAL VOLTAGE 28V/14V 400A/50A

APPLICABLE MODELS: N1602

DRIVE CURVE: DRIVE HORSEPOWER AND kW VERSUS ALTERNATOR
SHAFT SPEED IN RPM AT 28.0 VOLTS.

EFFICIENCY CURVE: EFFICIENCY IN PERCENTAGE OF ALTERNATOR
OUTPUT POWER DIVIDED BY INPUT POWER VERSUS
ALTERNATOR SHAFT SPEED IN RPM



NOTE:

1. ALL MEASUREMENTS LISTED ON CURVE ARE TAKEN AT 22°C/72°F AMBIENT TEMPERATURE AND A STABILIZED MACHINE TEMPERATURE AT MAXIMUM OUTPUT WITH VOLTAGE CONSTANT AT 28.0 VOLTS.
2. HP = HORSEPOWER
RPM = REVOLUTIONS/MINUTE
A = AMPERES
kW = KILOWATTS (1000 WATTS)



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SPECIFICATIONS

- DUAL VOLTAGE NEGATIVE GROUND ALTERNATOR SYSTEM WITH 28 VOLT 400 AMPERE OUTPUT AND 14 VOLT 50 AMPERE AUXILIARY OUTPUT
- BRUSHLESS (6) PHASE EXTERNALLY ENERGIZED AND SELF RECTIFYING
- EXTERNAL SOLID STATE REGULATOR WITH NEGATIVE TEMPERATURE COMPENSATION (SEE REGULATOR VOLTAGE DRIFT WITH TEMPERATURE)
- FULL OUTPUT CURRENT OF 28V SIDE DERIVED WITH NO 14V LOADS APPLIED. OUTPUT OF 28V SIDE IS SELF LIMITED
- MAXIMUM LOADS OF 14V SIDE NOT TO EXCEED 50 AMPERES. OVERLOADS ABOVE 50 AMPERES MAY DAMAGE VOLTAGE REGULATOR
- OUTPUT OF ALTERNATOR IS THE SUM OF 28V SIDE CURRENT AND THE 14V SIDE CURRENT SO THAT COMBINED LOADS DO NOT EXCEED FULL OUTPUT PERFORMANCE OF EXCLUSIVELY 28V LOAD
- EXTREMELY LOW LOAD AMPERES OF 28V SIDE WILL REDUCE 14V SIDE PERFORMANCE BELOW 50 AMPERES (SEE COMBINED LOADS TABLE)
- PEAK TORQUE AT 22°C/72°F MACHINE TEMPERATURE 64 Nm/47 LB FT AT 2000 RPM AND A 383 AMPERE LOAD AT 28.0 VOLTS
- PEAK DRIVE AT 22°C/72°F MACHINE TEMPERATURE 21.0 kW/28 HP AT 8000 RPM AND A 514 AMPERE LOAD AT 28.0 VOLTS

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